



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS DIVISION

OIL AND GAS DIVISION

NOTICE OF PROPOSED LOCATION OF OIL AND GAS WELL

To THE DEPARTMENT OF MINES, Charleston, W. Va.	
None	United Evel Gos Go
COAL OPERATOR OR COAL OWNER	United Fuel Gas Co.
	c/o G. H. Moore
ADDRESS	P. O. Box 1273. Charleston 25, W. Va.
	March 3, 19 50
COAL OPERATOR OR COAL OWNER	PROPOSED LOCATION
ADDRESS	Grant District
United Fuel Gas Co.	Wayne County
OWNER OF MINERAL RIGHTS	38°05' County
P. O. Box 1273	Well No. 6564 82° 1.5
Charleston 25, West Virginia	United Fuel Gas Co.
ADDRESS	Mineral Tract No. 1 Farm
GENTLEMEN:	- um
oil and gas, having fee title thereto, (or as the case i	rill upon the above named farm or tract of land for Deed may be) under grant or lease dated
, made b	y Huntington Dev. & Gas Co. , to
United Fuel Gas Co.	, and recorded on the 27th day
f December 1946 ,ir	the office of the County Clerk for said County in
Book 234 , page 318	della for said county in
ries of the same, who have mapped their workings a coal operators or coal owners (if any) above named as The above named coal operators or coal owners (if desire to make to such proposed location, or which they he drilling of a well at said proposed location will caus coal mines, must be received by, or filed with the Department copy of this notice and accompanying plat by said Definition to the proposed location will be from request and that all such objections must set forth as grounds on which such objections are based and indicate the	f any) are notified that any objections they may are required to make by Section 3 of said Code, if a dangerous condition in or about their respective ment of Mines within ten* days from the receipt of epartment. Said coal operators are further notified urnished to them by the Department of Mines promptly
(The next paragraph is to be completed only in	n Department's copy.)
Copies of this notice and the enclosed plat were n	nailed by registered mail, or delivered to the above
amed coal operators or coal owners at their above shor on the same day with the mailing or delivery of the Vest Virginia.	
	lly yours,
989107	
(6)	United Fuel Gas Co.
2	WELL OPERATOR
MAR 1950 Address	c/o G. H. Moore
of of	STREET
Well Operator	P. O. Box 1273, Charlest 4/107202
8 320 T. W.	West Virginia
*Section 3 If no such objections be filed or be for a days from the receipt of said notice and plat by the departent shall forthwith issue to the well operator a drilling per use been made by the coal operators to the location, or for proved and the well operator authorized to proceed to drilling the coal operator authorized to drilling the coal operator	mit reciting the filing of such plat, that no chications

JARRETT PRINTING COMPANY, CHARLESTON, W. VA.

WAY-714

PERMIT NUMBER

March 20, 1950

United Fuel Gas Company P. O. Box 1273 Charleston 25, W. Va.

Gentlemen:

Enclosed is permit WAY-714 for the drilling of Well No. 6564 on the United Fuel Gas Company Mineral Treet #1, Grant District, Wayne County.

Very truly yours,

Administrative Assistant OIL AND GAS DIVISION

Mig enol

oc: O. C. Allen, Inspector Oil and Gas Wells R. C. Tucker, Assistant State Geologist

Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth Found	Remarks
White Slate Shell Brown Shale White Slate Dark Shale Brown Shale White Slate Brown Shale Slate Total Depth			2432 2455 2465 2535 2835 3136 3180 3190 3472 3482¹	2455 2465 2535 2835 3136 3180 3190 3472 3482	Shot 7-5-50 from 2468. Test 15 Hrs Test after FINAL OPEN 172 Hrs. R.P	3482'. after shot cleaning out	DuPont Gelatin 15/10 W 2" 163 37 days 3/10 W 2" 73 M - Shale
TOUR AND A SERVICE AND A SERVI		The Lead of the Land of the La	Mule don't le don't l	CCOLI		11/	10/2023

Date December 7, 195 United Fuel Gas Co. , Ow APPROVED_ Chief Engineer (Title) R. Ву_



Wayne

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS DIVISION

WELL RECORD

Permit	No.	WAY-7	14
I CI IIII	110.		

Oil	OF	Cas	Well	Ud, 5
On	OL	CIMIS		(KIND)

Permit No. WAI = / Lit	1			(KIND)
Company United Fuel Gas Co. Address P. O. Box 1273, Charleston 25, W. Va.	Casing and Tubing	Used in Drilling	Left in Well	Packers
Farm U.F.G. Co. Min. Tr. #1 Acres 38,009.88 Location (waters) Hurricane Br. of Kiahs Creek	Size			Kind of Packer Hookwall & Anch
Well No. 6564 Elev. 968.741 District Grant County Wayne The surface of tract is owned in fee by	13	181	181	Size of X 6-5/8" X 2
Address United Fuel Gas Co.	8½	16681	1668'	Depth set 2410
P. O. Box 12/3, Address offerresson 2, 11/2	• 5 3/16 3			Perf. top Perf. bottom
Drilling completed 7- 3-50 Date Shot 7-5-50 From 2468 To 3482 With 7400# Gel.	Liners Used			Perf. top Perf. bottom
Open Flow 15/10ths Water in 2" Inch /10ths Merc. in Inch	CASING CEM	ENTED	SIZE	No. Ft. Dat
Rock Pressure 310 lbs. 72 hrs.	COAL WAS I	ENCOUNTERE	D AT	FEETINCHES
Fresh water feet feet	FEF		CHES	FEET INCHES
Salt waterfeetfeet		1		

Salt water		feet	feet	FEET.	INCH	ESFEET	INOILE
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth Found	Remarks
Formation Surface Sand Slate Maxon Sand Slate Broken Sand		Hard or Soft	0 17 40 50 90 105 160 170 230 290 330 380 455 725 747 895 908 915 923 975 1002 1041 1200 1225 1295 1375 1422 1430 1475 1550 1588 1593 1775 1800 1825 1850	17 40 50 90 105 160 170 230 290 330 380 455 725 747 895 908 915 923 975 1002 1041 1200 1225 1295 1375 1422 1430 1475 1550 1588 1593 1775 1800 1825 1850 2380	or Water	Found 9 707: 1950 18778	0/2023
Brown Shale		2015	2380 2397	2397 2432	or gares	3,0004	A partie

UNITED FUEL GAS COMPANY

SERIAL WELL NO. 6564		LEASE NO	REF: 2	24689		MAP SQUARE 26-39
RECORD OF WELL NO. 6564	on the		CASING AND	TUBING		TEST BEFORE SHOT
U.F.G.Co. Min. Tr.#lfarm of 38,60	9.88 Acres	SIZE	WEIGHT	USED IN	LEPT IN	10 /10 of Water in _21inc
	District	10-3/44	32.75#	17.8	17 180	
	County	8-5/811	24/4	49219		Volume 133 MCF Cu. f
State of: West Virginia		70	20/		1682 12 1	TEST AFTER SHOT
Field: Branchland		3 w	7.7#		3228:14	15 /10 of Water in 2"inc
Rig Commenced By Contractor	194	311	Perf.	47.50	47.50	
Rig Completed By Contractor	194					Volume 163 MCP Cu.
Drilling Commenced April 25	19450					15 Hours After Sho
Drilling Completed July 3	19450					Rock Pressure 3107 - 72 br
	er foot	35				Date Shot 7/5/50
Contractor is: W. M. Burchett						Size of Torpedo 7400# Gel.
Address: Huntington, W.				SHUT IN		
			Date		11, 1950	Oil Flowed bbls. 1st 24 hrs
Driller's Name W. C. Mills			30in.	-A-Der-F	Tubing or	Oil Pumped bbls. 1st 24 hrs
Clark Starkey				3#Y7#Y	Miles Comb	
				cker Wall	- 11	Weil abandoned and
						Plugged 194
Elevation: 968.74				2578 fr		
		DRILL	ER'S RECORD	et 2578fre	ow∈ OTO 4	
FORMATION	ТОР	воттом	THICKNESS			
Surface	0	17	17			REMARKS
Sand	17	40	23			
Slate	40	50	10			
San d	50	90	40	•		
Slate	90	105	15			
and	105	160	55			
late	160	170	10			
end late	170	230	60			
and	230	290	60			
	290	330	40			
late	330	380	50			
and Slate	380	455	75			
and	455	725	270		Alunna	Y. C. V.
Late	725	747	22		APPRO	/ED
Sand	747	895	148		VIE	Gehiore
ate	895	908	13			
	908	915	7			

·			RILLER'S	RECORD	_	REMARKS
	TOP	BOTT	OM TI	HICKNESS	_	
FORMATION		92	2	8	_	
	915		Fig. 14 and Company	52		
and	923	97		27		
Slate	975	AND DESCRIPTION OF THE PERSON NAMED IN	002	39		
Send	1005		<u>#1</u>	159		
Slate	1041	-	200			
Salt Sand	1200	-	225	25		
slate	1225		1295	70		
Maxon Sand	1295		1375	80		
glate	1375	1_	非28	47		
Sand	1422		1430	8	-	
Slate	1430		1475	45	-	
Broken Sand	1475		1550	75	\vdash	
sand	1550		1588	38	+	
Tittle Lime	1588		1593	5	1	24-1-1681
pencil Cave	159		1775	182	17	7# OD Casing Point 1668
Rig Lime			1800	25	1	
geener Sand	180		1825	25		
Red Rock			1850	25		
Injun	182		2380		1	
slate	18				1	
Brown Shale	23		2399		1	
Berea Sand	23	99	2432		+	
White Slate	5#		245		1	
	24	55	246		-	
Shell	24	65	253		-	
Brown Shale	26	535	28	35 300)	
Whi to Slate	2	835	313	6 30	_	
Dark Shale		136	318	30 HH	_	
Brown Shale		180	319			
White Slate		190	74		9	
Brown Shale		472	3/4			Gas Pay 31461- 2/10 W-2W
Slate		7/5				7-6-50- cavings 59°
		1100				3n Tubing run et 3210:
Total Depth		1482			_	3H TUDING PUR GO)-20
					_	The state of the s
						Augustion
						It Elle Brown
				1.		

Devonian Shale - 2432' to 3482' Total Shale - 1050'

no sand logged no electric log Mary S. Friend Geologist

11/10/2023

July 5,	10	50

7400# Du Pont G	elatin	-P. J.	rarr
111 Shells			
zhao.			
3482•			_1661
before shot = 10/1 After Shot = 15/1	10 W-20 (133 MOF	
stagine.			
	111 Shells 4-1/4m X 19-1/2 2468. 3482. Brown Shale (Name of Sand) Brown Shale (Name of Sand) 3482. before shot= 10/2	7400 Du Pont celatin 111 Shells 4-1/4 X 19-1/2. 2468. 3482. Brown Shale Sand (Name of Sand) Brown Shale Sand (Name of Sand) Shale Sand Shale Sand	14-1/4m X 19-1/2. 2468. 3482. Brown Shale Sand 2468. (Name of Sand) Brown Shale Sand 3482. (Name of Sand)

NOTE-When a well is shot this form must be filled out and sent to the General Superintendent.





U.S. DEPARTMENT OF ENERGY Federal Energy Regulatory Commission

Washington, D.C. 20426

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)

(Sections 102, 103, 107 and 108)

PLEASE READ BEFORE COMPLETING THIS FORM:

General Instructions:

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA. A separate application is required for each well. If any reservoir qualifies for a category which differs from the category applicable to the producing well, separate applications must be made for the producing well and the reservoir. Complete each appropriate item on the reverse side of this page. The code numbers used in items 4.0 and 6.0 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Enter any additional remarks in the space below.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 274.501. If there are any questions, call (202) 275-4539.

Specific Instructions for Item 2.0, Type of Determination:

Section of NGPA	Category Code	Description	
102	1	New OCS Lease	
102	2	New onshore well (2.5 mile test)	
102	3	New onshore well (1,000 feet deeper test)	
102	4	New onshore reservoir	
102	5	New reservoir on old OCS Lease	
103		New onshore production well	
107	-	High cost natural gas	
108		Stripper well	

Contract Date (Mo. Day Yr.)		Purchaser		Buyer Code
and the second s	45 SQUARENCE GARACTERS		34	

	-	FERC-121		TRATE	TEM
1.0 API well number: (If not assigned, leave blank 14 digits.)	47-0	99 - 007/4	4 -	1	
2.0 Type of determination being sought (Use the codes found on the front of this form.)	107 Section of	-	Category Code	JUN 1 0 19	982
3.0 Depth of the deepest completion location (Only needed if sections 103 or 107 in 2.0 above.)		3482	_feet DI	OIL & GAS DI	VISION MINES
4.0 Name, address and code number of applicant (35 letters per line maximum. If code number not available, leave blank.)	Name	Box 1273		orporation W 25325 Zip Code	
5.0 Location of this well. [Complete (a) or (b).] (a) For onshore wells. (35 letters maximum for field name.)	Field Nam Way County		liea B	State	
(b) For OCS wells	Area Nam	Date of Les	a se	Block Number	
(c) Name and identification number of this well. (35 letters and digits maximum.)	Teo	Min.Tx.	No. 1	806564	4
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)		NA			
6.0 (a) Name and code number of the purchaser (35 letters and digits maximum. If code number not available, leave blank.)	Name	*			004030 Buyer Code
(b) Date of the contract:	Mo. Day Yr.				
(c) Estimated total annual production from the well	Million Cubic Feet				
		(a) Base Price	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price (As of filing date. Complete to 3 decimal places.)	S/MMBTU				
8.0 Maximum lawful rate (As of filing date. Complete to 3 decimal places.)	S MMBTU	Dereg			
9.0 Person responsible for this application: Agency Use Only Date Received by Juris. Agency JUN 101982 Date Received by FERC	Name Signature Date App	ut H. Ma	athenw)	Title 04) 346-0951 Phone Number I no sales at	

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date 5-27 , 19 82
Operator's 806564

API Well No. 47 - 099 - 007/4 Permit

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No.

WELL OPERATOR Columbia Gas Trans. Corp	
ADDRESS P. O. Box 1273	ADDRESS P. 0. Box 1273
Charleston, WV 25325	Charleston, WV 25325
Gas Purchase Contract No. NA*	and Date (Month, day and year)
Meter Chart CodeNA*	
Name of First Purchaser	
(Stree	et or P. O. Box)
(Clty)	(State) (Zip Code)
FERC Seller Code NA*	FERC Buyer Code NA*
TYPE OF DETERMINATION BEING SOUGHT:	10701
(1) Initial determination (See FERC Form	
(2) Determination that increased product recovery technology.	tion is the result of enhanced
(3) Determination of a seasonally affect	
	Albert H. Mathena, Jr. Production Engineering
*This well is a pipeline production	achest G. Mathena &
and no gas purchase contract exists	S. P. O. Box 1273
	Street or P. O. Box
	Charleston WV 25325
	304) 346-0951
	Area Phone Number
	Code
(Certificate of Proof of Service to Purchaser	r)
	ned by Columbia Gas Transmission Corporation,
owner and operator of the identified	I well.
(All of the above to be completed by the Open	rator/Applicant)
(To be completed by Jurisdictional Agency. In purchaser, if known).	Executed copy to be returned to Operator/Applicant and
The Department of Mines has rec	ceived a request, for certification of the above described
well as meeting the requirements of Section (NGPA):	under the Natural Gas Policy Act of 1978. sed production is the result of enhanced recovery technology rmination of a seasonally affected well under Section 108 of (NGP.
All interested parties are hereby rethe office of the Oil and Gas Division in Chabe heard, there will be a public hearing, if re	notified that on the day of , 19 , at arleston, West Virginia, or as soon thereafter as it may requested, or if objection is filed.
This Application is assigned File N	No
entitled to certification as claimed under th	itted indicates the well is. is not ne Natural Gas Policy Act (NGPA). A review of this evidence the time appointed for a public hearing or as soon thereafter
Unless objections are timely filed days, a hearing will not be held except on exgo to determination.	or a request for a hearing is made within fifteen (15) x parte motion of the department and the matter will
	WEST VIRGINIA DEPARTMENT OF MINES
IIIN . o	
JUN 1 0 1982	Director
Data manafara I ka	By Ry
Date received by Jurisdictional Agency	Title 41/40/2023

STATE OF WEST VIRGINIA

Date 5-27 -82

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's 806564

API Well No.

47 - 099 - 00714 State County Permit

WELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONIAN SHALE

NGPA Sec	ction 10/
	DESIGNATED AGENT James L. Weekley
	ADDRESS P. O. Box 1273
	Charleston, WV 25325
	LOCATION Elevation 968.74
WELL OPERATOR Columbia Gas Trans. Corp.	Watershed
ADDRESS P. O. Box 1273	Dist. Stone Wall County Wayne Quad.
Charleston, WV 25325	Gas Purchase Contract No. N.A.
.GAS PURCHASER N.A.	
ADDRESS	Meter Chart Code
This is a simplified model of the control of the co	Date of Contract N.A.
This is a pipeline production well and no *	gas purchase contract exists.
Date surface drilling began: 4-25	5-1950
Indicate the bottom hole pressure of the	well and explain how this was calculated.
see supplement	
See Supp	
AT	PETDAME
	FFIDAVIT
Devonian Shale as indicated by a Gamma Radescribed in subparagraph (3)(i) or (3)(i) report described in subparagraph (3)(ii) of potentially disqualifying non-shale for percent of the gross Devonian age interval	al; and I have no knowledge of any information inconsistent with a conclusion that the well
STATE OF WEST VIRGINIA	
COUNTY OF KANAWHA , TO-WIT:	
I, Larry G. Burdette , a Notar	ry Public in and for the state and county
aforesaid, do certify that Albert H. Math	hena, Jr. , whose name is signed to
the writing above, bearing date the 27	day of May, 19 82, has
acknowledged the same before me, in my co	
Given under my hand and official seal the	is 27 day of //ay 11/10/2023.
My term of office expires on the 13 da	ay of August, 1989
	y y /h not
(NOTARIAL SEAL)	Notary Public
2 2 1 2 1 × 3 . 5	1 4

Miller of Marie

11/10/2023



COLUMBIA GAS TRANSMISSION CORPORATION

WELL NO. 806564 SUPPLEMENT: METHOD OF CALCULATION OF BOTTOM HOLE PRESSURE PBH = PWH + PWH (E**0.0000347*G*L - 1.)

WHERE:

PBH = BOTTOM HOLE PRESSURE (PSIA)

PWH = WELLHEAD PRESSURE (PSIA)

G = SPECIFIC GRAVITY OF GAS

= 0.7170

= 324.7

L = DEPTH TO MIDDLE OF PERFORATIONS (FT.) = 2975

STEPS:

PBH = 324.7 + 324.7 (E**0.0000347*2133.075 -1.)

PBH = 324.7 + 324.7 (E**0.074018 -1.) PBH = 324.7 + 324.7 (1.07683 -1.)

PBH = 324.7 + 324.7 (0.077)

PBH = 324.7 + 24.9

PBH = 349.6 (PSIA)



State of Mest Virginia

Department of Mines Oil and Gas Division Charleston 25365

WALTER N MILLER DIRECTOR THEODORE M. STREIT
ADDRESS TRATOR

OF THE DEPARTMENT OF MINES OF THE STATE OF WEST VIRGINIA

IN THE MATTER OF THE APPLICATIONS OF COLUMBIA GAS TRANSMISSION CORPORATION REQUESTING CLASSI-FICATION UNDER SECTION 107 OF THE NATURAL GAS POLICY ACT OF CERTAIN WELLS IN BOONE, CABELL, JACKSON, KANAWHA, LINCOLN, LOGAN, MINGO AND WAYNE COUNTIES, WEST VIRGINIA.

CAUSE NO. 33

ORDER NO. 1

REPORT OF THE OFFICE

This cause came before the Administrator of the Office of Oil and Gas on June 28, 1982, at 1:00 p.m., in Conference Room C, Capitol Conference Center, Charleston, West Virginia, after giving notice of hearing as required by law on the applications of Columbia Gas Transmission Corporation for certification of certain wells in Boone, Cabell, Jackson, Kanawha, Lincoln, Logan, Mingo and Wayne Counties as Devonian Shale wells under Section 107(c)(4) of the Natural Gas Policy Act.

FINDINGS OF FACT

- l. Applicant is an operator within the meaning of paragraph (w) of Chapter 22-4-1.
 - 2. Applicant has made filings for certification pursuant to Rule 34.04.
- 3. The Natural Gas Policy Act (NGPA) in Section 107, Ceiling Price For High-Cost Natural Gas--(c) Definition of High-Cost Natural Gas-- "For purposes of this section, the term "high-cost natural gas" means natural gas determined in accordance with Section 503 to be...(4) produced from Devonian Shale."
- 4. The Federal Energy Regulatory Commission (FERC) by Rule 272.101-(c) prescribes the method by which the jurisdictional agency may determine gas produced from Devonian Shale.
- 5. Exhibits refer to evidence gathered at a public hearing held June 28, 1982.

- 6. Exhibits No. 2 and 3 lists the wells to be under consideration for Section 107 pricing. All these wells are located on Exhibits No. 4 and 5 and have been completed in the Devonian Shale.
- 7. Applicant, by letter dated June 25, 1982 (Exhibit No. 3) requested that eight (8) of the wells listed on Attachment A be stricken from the docket for hearing and they have been withdrawn.
- 8. Exhibit No. 6 shows random sampling of already qualified Devonian Shale wells.
- 9. Various cross-sections throughout the interval show gamma ray logs of the wells (see Exhibits Nos. 7, 8 and 9).
- 10. No well has any non-shale greater than 5% in the Devonian interval penetrated.
- ll. No gamma ray logs are available on these wells since they were all drilled before logging was common in West Virginia.

CONCLUSION OF LAW

- 1. That due notice of the time, place and purpose of the hearing has been given in all respects as required by law.
- 2. That pursuant to Chapter 22, Article 4, Code of West Virginia of 1931, as amended, the Office has jurisdiction over the subject matter embraced in said notice, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

ORDER

NOW, therefore, based on the aforementioned Findings of Fact and Conclusion of Law, it is found by the Administrator that Columbia Gas Transmission Corporation's applications for classification under Section 107 of the Natural Gas Policy Act for certain wells in Boone, Cabell, Jackson, Kanawha, Lincoln, Logan, Mingo and Wayne Counties, identified in Attachment A, are approved.

The Office of Oil and Gas further incorporates the Report of the Office and Findings of Fact and Conclusion of Law dated June 28, 1982, as if the same were fully set forth and includes hereto the Report of the Office and Findings of Fact and Conclusion of Law as a part of this Order.

Entered this 12th day of July, 1983.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

OFFICE OF OIL AND GAS
OF THE DEPARTMENT OF MINES
OF THE STATE OF WEST VIRGINIA

:_____

Theodore M. Streit, Administrator